AMENDMENT

In the Claims:

Please replace the presently pending claims with the following claims:

1. (Thrice amended) A process for the production of a β -lactam, comprising the steps of:

- a) fermenting on a volume scale of at least 10 m³, a microbial strain that produces a β-lactam in a fermentation medium which contains only chemically defined components as carbon and nitrogen sources and contains no complex raw materials, and
 - b) recovering the β lactam from the fermentation medium.
- 2. The process of claim 1, wherein the chemically defined medium further contains an amount of a complex carbon and/or nitrogen source which is less than 10% of the total C and/or N in the medium.
- 3. The process of claim 1, wherein the chemically defined components comprise a carbon source selected from the group consisting of glucose, lactose, fructose, sucrose, a maltodextrin, starch inulin, glycerol, a vegetable oil, a hydrocarbon, an alcohol, an organic acid, and/or a nitrogen source selected from the group consisting of urea, ammonia, nitrate, an ammonium salt and an amino acid.
- 4. The process of claim 3, wherein the carbon source is glucose and the nitrogen source is ammonia and/or an ammonium salt.
- 5. The process of claim 1, wherein said fermenting is via a batch, a repeated batch, a fed-batch, a repeated fed-batch or a continuous fermentation process.
 - 6. The process of claim 5, wherein fermenting is via a fed-batch process.

- 7. The process of claim 6, wherein a carbon and/or a nitrogen source is fed to the process.
- 8. The process of claim 7, wherein the carbon source is glucose and the nitrogen source is ammonia and/or an ammonium salt.
- 15. The process of claim 1, wherein the microbial strain is a filamentous microbial strain.
 - 16. The process of claim 15, wherein the filamentous strain is a fungus.
 - 19. The process of claim 16, wherein the fungus is a Penicillium strain.
 - 20. The process of claim 19, wherein the fungus is *Penicillium chrysogenum*.
 - 36. The process of claim 19 wherein the β -lactam is penicillin V.
 - 37. The method of claim 19 wherein the β -lactam is adipoyl-7-ADCA.